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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/802,463	03/17/2004	Robert A. Walker	1908.001US1	3988
21186	7590	10/19/2005	EXAMINER	
SCHWEGMAN, LUNDBERG, WOESSNER & KLUTH 1600 TCF TOWER 121 SOUTH EIGHT STREET MINNEAPOLIS, MN 55402			COCKS, JOSIAH C	
			ART UNIT	PAPER NUMBER
			3749	

DATE MAILED: 10/19/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

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<b>Office Action Summary</b>	<b>Application No.</b> 10/802,463	<b>Applicant(s)</b> WALKER ET AL.	
	<b>Examiner</b> Josiah Cocks	<b>Art Unit</b> 3749	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --  
**Period for Reply**

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

**Status**

- 1) ☒ Responsive to communication(s) filed on 17 March 2004.
- 2a) ☐ This action is FINAL.                      2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

**Disposition of Claims**

- 4) ☒ Claim(s) 1-28 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-28 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

**Application Papers**

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 17 March 2004 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

**Priority under 35 U.S.C. § 119**

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All    b) ☐ Some \*    c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- \* See the attached detailed Office action for a list of the certified copies not received.

**Attachment(s)**

- |  |   |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)  | 4) <input type="checkbox"/> Interview Summary (PTO-413)<br>Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)                                   | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152)             |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)<br>Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____  |

## **DETAILED ACTION**

### ***Drawings***

1. The drawings filed 3/17/2004 are accepted by the examiner.

### ***Claim Objections***

2. Claims 11, 18, and 21 are objected to because of the following informalities:

In claim 11, line 1, it appears reference to claim "71" is a typographical error and should read "7".

In claim 18, line 1, the recitation of "wherein the floor" appears to be a substantially duplicate recitation of the immediately preceeding statement of "wherein the movable floor" and should be removed.

In claim 21, line 1, "for moves" should read "for moving".

Appropriate correction is required.

### ***Claim Rejections - 35 USC § 112***

3. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

4. Claim 10 is rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

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Claim 10 recites the limitation "the opening in the plate" in line 1. There is insufficient antecedent basis for this limitation in the claim. Neither this claim nor any claim upon which it is dependent include a limitation a limitation of an opening. As best can be determined, and for the purpose of an examination on the merits, it appears applicant intended this claim to be dependent upon the preceding claim 9, which introduces an opening in the plate.

***Claim Rejections - 35 USC § 102***

5. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

6. Claims 1-3, 6-9, 11-17, and 20-28 rejected under 35 U.S.C. 102(b) as being anticipated by U.S. Patent No. 3,126,881 to Blotsky ("Blotsky").

Blotsky disclosures in the specification and Figures 1-5 an invention in the same field of endeavor and as described in applicant's claims 1-3, 6-9, 11-17, and 20-28. In particular, Blotsky shows a barbecue stove that is considered a furnace as recited that includes a combustion chamber (11), and a burn pot (37 in conjunction with top rods 34) within the combustion chamber that includes a sidewall (38 and side portions of 34) and a movable floor (43 or 53). The moveable floor has an opening at least as large as the cross-sectional area of the bottom of the burn pot and has an actuator (44 or 54) for controlling the floor's movement. Blotsky also shows a translatable plate (38) that has openings (29) that appear substantially the same size as the lower cross sectional are of the burn pot (compare Figs. 2 and 6). Further, these openings

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may be cut or formed in different shapes or sizes (see col. 4, lines 30-31). As the rod portions (34) are considered part of the burner pot, the movement of the translatable plate (28) is considered to be through an internal volume of the pot (note col. 2, lines 37-38). The translatable plate is moved by actuator (33).

In regard to claims 12, 20, and 21, these claims do not specify the structure of the actuator. As noted above, both the moveable floor (43 or 44) and the translatable plate (28) of Blotsky have actuator structures that are individually controllable. Thus, these actuators are capable of being operated substantially simultaneously with one another. Further, in operating the actuators in unison these actuators would properly be considered an actuator for moving both the floor and plate.

In regard to claims 23-28, Blotsky shows all the steps recited including combusting fuel, forming an ash column in body (37) and removing a portion of the ash column through bottom (42) where more completely burned ash is separated for less burned coals by screen (41) (see col. 3, lines 26-31). In regard to claim 24, the rotational motion of bottom member (53 in the embodiment of Fig. 6) includes the same pivoting motion described by applicant to constituted cutting. Further, fuel is added to the top of the burn pot and the resulting ash is emptied from the bottom when desired (see col. 1, lines 23-34).

### ***Claim Rejections - 35 USC § 103***

7. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person

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having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

8. This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

9. Claims 4, 18, 19, and 22 are rejected under 35 U.S.C. 103(a) as being unpatentable over Blotsky as applied to the claims above in view of U.S. Patent No. 3,209,743 to Stewart et al. ("Stewart").

Blotsky discloses all the limitations of claims 4, 18, 19, and 22, except that the floor includes a grill portion and possible for an igniter in fluid communication with the burn pot.

Stewart teaches a stove/furnace in the same field of endeavor as both applicant's invention and Blotsky. In Stewart, a burn pot (23) is included that is similar to that shown in Blotsky. This burn pot (23) includes a lower floor that includes openings (32) that are considered to form a grill structure. This openings allow for air to enter the burn pot to promote burning of materials therein (see col. 3, lines 41-46). Further, as shown in Figure 4, when combustible materials are included in the burn pot an igniter (the illustrated match) is in fluid communication with the burn pot (see col. 4, lines 13-17)

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Therefore, in regard to claims 4, 18, 19, and 22, it would have been obvious to a person of ordinary skill in the art at the time the invention was made to modify the burn pot of Blotsky to incorporate the lower holes and igniter of Stewart in order to for ignition of combustible materials within the pot and for sustaining the combustion with a supply of air (see Stewart, col. 3, lines 41-46 and col. 4, lines 13-17).

10. Claim 5 is rejected under 35 U.S.C. 103(a) as being unpatentable over Blotsky as applied to claim 1 above in view of U.S. Patent No. 5,582,117 to Mendive et al. ("Mendive").

Blotsky discloses all the limitations of claim 5 except for openings in the sidewall of the burner pot.

Mendive teaches a burn pot in the same field of endeavor as applicant's invention and Blotsky. In Mendive, the burn pot (10) is similar to that of Blotsky in that it includes a lower ash dumping floor and also includes a sidewall with air openings (28). These air openings (28) provide for air flow around combustible material within the burn pot (see col. 3, lines 37-41).

Therefore, in regard to claim 5, it would have been obvious to a person of ordinary skill in the art at the time the invention was made to modify the burn pot of Blotsky to incorporate side wall openings as taught in Mendive for the desirable purpose of promoting air flow for combustion within the burn pot (see Mendive, col. 3, lines 37-41).

*Allowable Subject Matter*

11. Claim 10 would be allowable if rewritten to overcome the rejection(s) under 35 U.S.C. 112, 2nd paragraph, set forth in this Office action and to include all of the limitations of the base claim and any intervening claims.

*Conclusion*

12. This action is made non-final. A THREE (3) MONTH shortened statutory period for reply has been set. Extensions of time may be available under the provisions of 37 CFR

1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.

13. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. U.S. Patent Nos. 930,052 (Devermann), 1,804,285 (Snyder), 1,903,634 (Robinson), 5,297,493 (Neusmeyer et al.), 6,830,000 (Mendive et al.), and Canadian Patent No. 2 358 404 are cited to further show the state of the art concerning ash disposal in combustion devices.

14. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Examiner Josiah Cocks whose telephone number is (571) 272-4874. The examiner can normally be reached on weekdays from 8:00 AM to 5:30 PM.

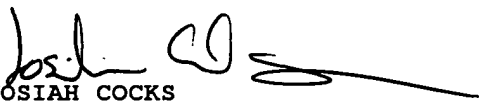


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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Ehud Gartenberg, can be reached at (571) 272-4828. The fax phone number for the organization where this application or proceeding is assigned is (703) 872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://portal.uspto.gov/external/portal/pair>. Any questions on access to the Private PAIR system should be directed to the Electronic Business Center (EBC) at (866) 217-9197 (toll-free).

jcc  
October 14, 2005

  
JOSIAH COCKS  
PRIMARY EXAMINER  
ART UNIT 3749